

Wireless Scanner

- MS910 -



User's Manual

Version 1.2

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Overview

Introducing the MS910

The MS910 scanner combines miniaturized barcode scan engine and wireless technology to provide the best value in a wireless handheld scanner. Featuring lightweight and ease-of-use, the MS910 scanner ensures the productivity and mobility of your business application.

The MS910 is the smallest wireless scanners in the market and is compatible with all major OS on the nowadays popular smartphones and tablet PCs via both HID and SPP profiles.







Enjoy the benefits of accelerated productivity, lower cost of ownership, and freedom of movement. The MS910 is a multipurpose scanner from a partner you can trust.
Thank you for choosing Unitech products.

Application:

- ✓ Warehouse
- ✓ Pharmacy
- ✓ Healthcare Services
- ✓ Retail
- ✓ Point of Sale (POS)
- ✓ Inventory Management
- ✓ Smartphone & Tablet PC

Package Contents

Please make sure the following contents are in the MS910 box. If something is missing or damaged, please contact your Unitech representative.

		
MS910 scanner	Product Resource CD	Quick Guide
		
USB Charging Cable	Hand Strap	Quick Connection Card

Note:

1. The scanner's default power off (idle mode) time is 3 minutes.
2. Please charge scanner for at least 2 hours prior to initial use.

[Scanner Detail]



1	Mini USB port	4	Exit Window
2	Trigger	5	Hard Reset Button
3	LED Indicator		

Chapter 2

Installation and Connection

Connecting (Pairing) the Scanner to a Host PC

Please make sure your PC or Smartphone has a built-in wireless adaptor; the MS910 supports both HID and SPP wireless profiles. If you are connecting it to an iOS (Apple) smartphone, please follow the instruction of “Connecting via Human Interface Device (HID) Mode”; if you are connecting it to an Android smartphone, please follow the instruction of “Connecting via Serial Port Profile (SPP) Mode” or the instruction of “Human Interface Device (HID) Mode”.

Note: Android 2.x devices can work with MS910 in the SPP mode ONLY. The SPP mode or/and the HID mode are not definitely compatible with each version of Android OS, and thus depends on the Android-based hardware specifications defined by the Android device manufacturers.

Connecting via Serial Port Profile (SPP) Mode

1. Turn on the wireless device on your host (PC, Smartphone, or Tablet).
2. Press the scanner trigger for 1 second to activate the scanner.
3. Scan [Disconnect] barcode.



4. Scan the [SPP] barcode below:



5. The scanner will emit several beeps.
6. Conduct a search for the MS910 on your host. Select “Wireless Scanner” from discovered device list and the scanner will beep twice.
7. Enter pincode, which is “1234” by default.
8. Open serial communication software with a COM port (see Device Manager) properly set up.
9. The scanner will beep twice and the indicator LED will turn off to verify the successful connection.

Connecting via Human Interface Device (HID) Mode

1. Turn on the wireless device on your host (PC, Smartphone, or Tablet).
2. Press the scanner trigger for 1 second to activate the scanner.
3. Scan the [Disconnect] barcode.



4. Press the trigger for 1 second to activate the scanner.
5. Scan the [HID] barcode below:



6. The scanner will emit several short beeps and then stop beeping. The green LED light will flash continually during the pairing process.
7. On your host device, in the settings section where you can see Bluetooth settings and manage your connections.
 - a. You will see the MS910 listed as [Wireless Scanner] under Bluetooth devices.
 - b. You will see a message under that [Pair with this device].
 - c. Select this device on your host and begin to pair.
8. Your Host device will ask you to type in a pin code.
 - a. Use your host device keypad to enter this pin code.
 - b. The pin code can be any set of numbers.
 - c. We suggest using 4 numbers.
9. Once you have entered the pin code on the Host device, you need to set up the pin code on the MS910 to match.
 - a. With the MS910, scan the Pincode Start barcode below.



- b. Refer to the barcode table below, and scan the same numbers that you used as the pin code on your Host device. For example, if your pin code is "241657", scan [2] – [4] – [1] – [6] – [5] – [7] in sequential order:





4



5



6



7



8



9



0

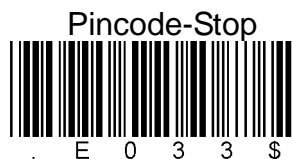
c. Scan the [Enter] barcode below:



Enter

* \$ T X *

d. Scan the [Pincode-Stop] barcode:



Pincode-Stop

. E 0 3 3 \$

10. On your Host device you will see the message under [Wireless Scanner] saying [connecting...].
11. Once that message turns to [Paired and Connected], the scanner will beep twice to verify a successful connection, and you are ready to start scanning bar code data into your Host device.
 - a. To do a test, open up Word or Note Pad or even a new E-mail [anything that will allow you to type in data].
 - b. Scan a number bar code from this manual.
 - c. That number should appear on your Host device in the application you opened.
 - d. If not, please scan [Disconnect] barcode below and repeat steps 1 to 9 above.

Note. To disconnect the scanner from the host or to switch the wireless profile from one to another, please scan the [Disconnect] barcode:



Disconnect

. E 0 3 1 \$

After scanning the [Disconnect] barcode, the MS910 will emit 3 beeps.

Smartphone Connection (Android)

1. Pair with the scanner via [SPP]; see the topic: *Connecting via Serial Port Profile (SPP) Mode*.



2. Install Bluetooth Connect.apk, which is available on CD.

Note: Before installation, enable 'Unknown Sources' in Android Authority.

3. Enable [BluetoothConnect] in the Language & Keyboard setting window and choose [BluetoothConnect] as Input Method.

4. Click [Connect] and you will be able to connect the scanner.

Note: BluetoothConnect needs to be installed only when you have NO wireless input application on your Android device. *Android 2.x devices can work with MS910 in the SPP mode ONLY. The SPP mode or/and the HID mode are not definitely compatible with each version of Android OS, and thus depends on the Android-based hardware specifications defined by the Android device manufacturers.*

To get the detailed example of SPP setting, refer to Appendix 2.

Smartphone/ Tablet PC Connection (iOS)

1. Pair with the scanner via [HID]; see topic "Connecting via Human Interface Device (HID) Mode".
2. Scan the numeric barcode according to the pincode generated by the Bluetooth application.
3. The scanner will beep twice to verify the successful connection.

Note: No special application needs to be installed when the scanner is connected to iOS smartphone/ tablet PC via HID mode.



To get the detailed example of HID setting, refer to Appendix 2.

Power Management

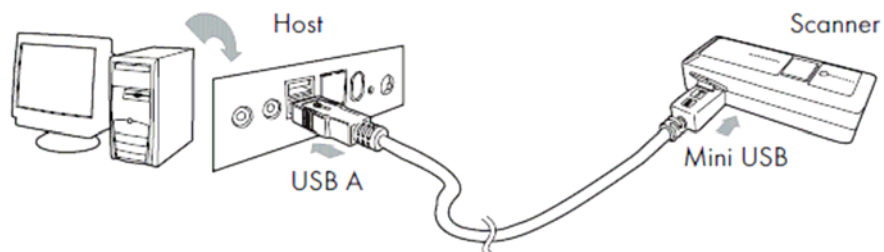
When not being used, the scanner will enter idle mode to conserve battery power. Scan the appropriate barcode below to set the time it takes the scanner to enter idle mode after any scanning activity.



Scanner LED & Beeper Indication

Scanner LED & Beeper Indication					
		Green LED	Red LED	Beeper	Remark
Scanner	Power Off or Standby	-	-	-	See Power Off Timeout
	Charging	-	Solid	-	-
	Disconnected or Discoverable	Flash	-	-	-
	Initializing	Flash	Flash	1 long beep	-
	Power Up	-	-	1 long beep	-
	Barcode scanning w/o proper connection	Flash	-	1 beep	-
	Successful barcode scan	1 Flash	-	1 beep	-
	Successful Connection	-	-	2 beeps	-
	Unsuccessful Pincode Setup	-	Flash	3 short beeps	Scan [Pincode Stop] and retry
	Low Power	-	Flash	5 beeps	-

Charging the Battery



1. Flip open the mini USB port on the scanner.
2. Insert the mini USB connector into the port on the scanner and USB A connector into a USB port on the host PC.
3. Please charge the scanner for at least 2 hours (until the LED indicator turns off).

Specification

MS910	
Performance/Optical	
Image Sensor	Linear CMOS sensor
Light Source	625nm Visible Red LED
Max. Resolution	5 mil (0.127mm)
Scan Rate	240 scans/second
Printing Contrast Scale	30% Minimum
Depth of Field	
Reading Distance (DOF PCS=90%)	Code 39, 5mil: 15mm (near) / 60mm (far) Code 39, 13mil: 30mm (near) / 140mm (far) Code 39, 20mil: 35mm (near) / 185mm (far)
Functionality	
Symbologies	UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, ChinaPostal Code, MSI Plessey Code, UK PlesseyCode, EAN/UCC 128, Telepen Code, IATA Code, GS1 Databar.
Configuration Method	Configuration barcodes
Electrical	
Operation Voltage	3.7VDC \pm 5%
Battery Type	Lithium-Ion
Current Consumption	Operation mode:<150mA; Standby mode:<65mA
Battery Duration	5000 reads/charge
Environmental	
ESD Protection	Functional after 4KV Contact and 8KV Air

Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C
Relative Humidity	20% to 85% non-condensing
Drop Test	1.5M
Communication	
Range	10M (line of sight)
Host Interface supported	Mini USB
Interface/Profile	SPP, HID
Wireless Class	Wireless Class 2
Mechanical	
Housing Material	ABS
Dimensions	L65 x W24 x H18mm / 2.6 x 0.9 x 0.7in
Weight	24.6g / 0.9oz
Regulation Approvals	
FCC Class B, CE	
Accessories	
Mini USB cable, Hand Strap, Tools CD	

User Preferences

Setup Procedures

This chapter describes the user-configurable settings for the MS910 and provides the programming bar codes for selecting these features for the scanner. To configure your MS910 scanner:

1. Locate the appropriate feature setting listed in the following pages.
2. Set feature values by scanning single barcodes or short barcode sequences.
3. The MS910 will beep to confirm a successful scan and will store the new setting in the scanner's memory.

Min. Length / Max. Length

Step 1: Scan MIN LENGTH or MAX LENGTH.

Step 2: Scan two digits from Full ASCII Chart of Appendix A.

Step 3: Scan MIN LENGTH or MAX LENGTH.

NOTES:

1. If the scanner beeps three times, it is an alert that a setting update is incomplete.
2. If you make a mistake in attempting to update a scanner setting, such as accidentally scanning the wrong barcode or forgetting a step, scan the [Reset] barcode below to start the process over.

Reset



3. If you want to restore the scanner back to factory settings, please scan the [Default] barcode below.

Default



Bar Code Length Setting

The following examples illustrate how to set up Code 39 with a minimum length of 5 and a maximum length of 20, respectively.

➤ Minimum length of 5

1. Go To "Group 4".
2. Scan "MIN LENGTH" to enter minimum length setting.
3. Scan "0 " and "5" to select length S. (Full ASCII Chart of Appendix A)
4. Scan "MIN LENGTH" to end minimum length setting.

- Maximum length of 20
- 1. Go To "Group 4"
- 2. Scan "MAX LENGTH" to enter maximum length setting.
- 3. Scan "2" and "0" to select length 20. (Full ASCII Chart of Appendix A)
- 4. Scan "MAX LENGTH" to end maximum Length Setting.

Code ID Setting

Each bar code symbology supported by the scanner has a default ID character defined as below:



CODE ID IDENTIFIER

SYMBOLOGES	Factory ID	SYMBOLOGES ID	Factory ID
MSI	O	CODABAR	N
EAN 8	S	UKPLESSY	P
UPC -E	E	FULL ASCII Code 39	D
UPC -A	A	STANDARD Code 39	M
EAN 13	F	IATA 2of5	R
Code 93	L	INTERLEAVED 2 of 5	I
Code 11	J	INDUSTRIAL 2 of S (Code 2 of 5)	V
TELEPEN	U		
EAN 128	T	China Post Code	H
Code 128	K	Code 32	B

Preamble (prefix) and Postamble (Surffix):

PREAMBLE & POSTAMBLE (PREFIX AND SUFFIX)

Clear Preamble Postamble



Preamble(16)



Postamble(16)



EXAMPLE:

Set PREAMBLE String as "##"

POSTAMBLE String as " \$\$ "

SETTING PROCEDURE:

STEP 1: Scan: PREAMBLE.

STEP 2: Scan: " # " twice from Full ASCII Chart of Appendix A.

STEP 3: Scan: PREAMBLE.

STEP 4: Scan: POSTAMBLE.

STEP 5: Scan: " \$" twice from Full ASCII Chart of Appendix A.

STEP 6: Scan: POSTAMBLE.

FORMAT:

{Preamble} {Code ID}{Bar Code }{Postamble}

NOTES:

1. A PREAMBLE is a string of up to 16 characters added to the beginning of a scanned barcode.
2. A POSTAMBLE is a string of up to 16 characters added to the end of a scanned bar code.
3. Default value for either: None.

Quick Setup

Appendix A has a quick setup chart, which gives you one label or one function for quick customization of the scanner. To set up the scanner, locate the label with the function you want and scan that label.

Batch Setup

If you need to configure more than one scanner, you can duplicate the settings of one scanner (master) and quickly deploy these settings to the others. You can do this by producing a set of custom setup labels derived from the master scanner. Then simply scan these labels to configure the other scanners.

The following label is called the “Dump Settings” label. Before you scan the label, please open a text editor application (such as Notepad or Microsoft Word) on the host PC. When you scan the [Dump Settings] barcode, the settings of the scanner will appear within the text editor application as one or several ASCII string(s). Use any barcode printing software, select the Code 39 symbology, and use the string(s) to generate bar code labels. Use the batch setup labels to duplicate these settings to the other scanners.



EXAMPLE:

1. PROJECT ASSIGNMENTS:
 - 1.1 Beep tune: BEEP LOW -- HIGH
 - 1.2 Caps Lock Mode: CAPSLOCK ON (FIXED).
 - 1.3 Reading Mode: CONTINUOUS AUTO OFF.
2. SETTING PROCEDURE:
 - 1.1 Scan BEEP LOW – HIGH. (GROUP 3).
 - 1.2 Scan CAPSLOCK ON (FIXED). (GROUP 3)
 - 1.3 Scan CONTINUOUS AUTO OFF. (GROUP 2)
3. All parameters will be converted to alphanumeric characters and shown on the monitor.



- Print the results shown on the monitor as bar codes with a bar code printer. The bar codes should be in the Code 39 symbology.

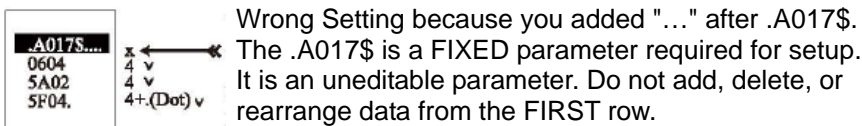
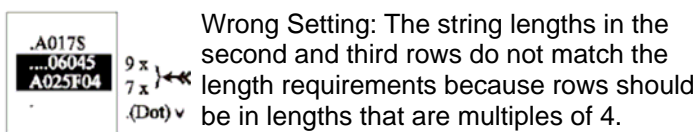
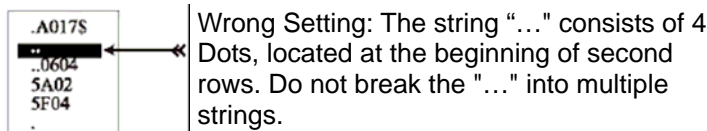


- Scan these labels with any of the scanners you wish to configure similarly to the master. Be sure to scan from the first row to the second row and so on sequentially, top to bottom.

CORRECT SETTING

.A017\$	4	.A017\$	12
...0604	4	...06045A02	4+.(Dot)
5A02	4	5F04.	
5F04	4		
.	.(Dot)		

WRONG SETTING



- Only the settings that are different from the default values will be dumped.
- The settings can be dumped to either a PC or terminal, if the Device Types of the PC or terminal match that of the scanner. The previous example of "Keyboardless Wedge" as Device Type is equivalent to a PC/AT interface, so you cannot dump the scanner settings to a system that does not support a PC/AT keyboard interface. The following label dumps the settings to a PC/AT regardless of the type of device that has been chosen on the scanner.

Dump Settings on PC_AT



- ✧ You can adjust the length of the dumped strings by combining multiple strings into one or breaking one string into multiple strings. The following strings have the same effect as the dumped string listed above:

```
... I800C06D51DJ8080  
80A007C005354415254.
```

You cannot delete any character from or add any character to the strings and the first three characters ("...") must be present in the first string.

- ✧ All characters in dumped strings are uppercase. If you see lowercase characters in dumped strings, change them to uppercase.

Examples

Quick Setup Sheet

scanner Mode

.F002\$



Trigger

.F001\$



Flash

.F005\$



CONTINUOUS MODE

.F006\$



CONTINUOUS AUTO OFF

UPC-E

.H010\$



Cut Leading Digit

.H011\$



Send Check Digit

.H053\$



UPC-A Conversion

Beep

.F012\$



None

.F018\$



Medium

Terminator

.D013\$



Enter

Scan Code

.C010\$



U.S.

.C015\$



Alt Key

\$TQ



Cursor Right

\$TV



Back Tab

\$TP



Cursor Left

\$TW



Esc

\$TQ



Cursor Up

\$TX



Enter

\$TR



Cursor Down

\$TY



BS

\$TS



Page Up

\$TZ



Ins

\$TT



Page Down

\$T%K



Del

\$TU



Tab

Beeps and Delays Group 1

Interblock Delay

Beep Tone

.F019\$



BEEP HIGH

.F018\$



BEEP MEDIUM

.F022\$



BEEP LOW

.F012\$



BEEP OFF

.B001\$



0 ms

.B002\$



10 ms

.B003\$



50 ms

.B004\$



100 ms

.B005\$



200 ms

.B006\$



500 ms

Intercharacter Delay

.B010\$



140 uS

.B011\$



500 uS

.B012\$



1 mS

.B013\$



4 mS

.B014\$



16 mS

Keyboard Wedge Settings Group 2

Language(For PC/XT,AT)

 USA	 UK
 Swiss	 Spanish
 Italian	 German
 French	 Alt Key Mode
 Japanese(106 key)	 HUNGARIAN
	 CZECHCQWERTY
	 CZECH

Function Code

 Off
 ON
..... Caps-Lock
 Auto Trace(PC/XT, AT)
 <u>Lower Case</u>
 Upper Case

.....
Use number keypad digits

 Disable	 Enable
--	---

Scanner Port: Group 3

Terminator



Code ID



Label Type



Scanning Mode



Data Length (Two Dgths) Send



Preamble /postamble



Scan 'PP'OO' for
Pre/Postamble. Scan characters
from Full ASCII char or
Function

Define Code ID Group 3

Define Code ID

.P008\$



Full ASCII Code 39 Set ID

.P005\$



CODE 39 Set ID

.P001\$



EAN 13 Set ID

.P004\$



UPC A Set ID

.P002\$



EAN 8 Set ID

.P003\$



UPC E Set ID

.P024\$



GS1 DataBar Set ID

.P006\$



Interleaved 2 of 5 Set ID

.P007\$



Codabar Set ID

.P010\$



Code 128 Set ID

.P013\$



Code 93 Set ID

.P021\$



Standard 2 of 5 Set ID

.P020\$



GS1 DataBar Expanded
Set ID

.P014\$



MSI Code Set ID

.P016\$



EAN 128 Set ID

.P011\$



Code 32 Set ID (Italian hamacy)

.P015\$



UK Plessey Set ID

.P009\$



Code 11 Set ID(Special)

.P012\$



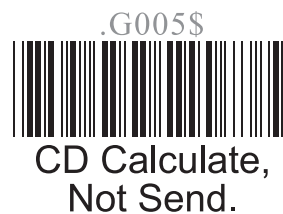
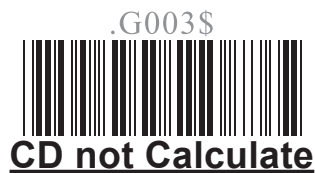
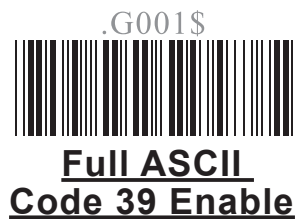
China Post code
(Toshiba Code)
Set ID

.P019\$



GS1 DataBar Limited
Set ID

Code 39 / Full ASCII Code Group 4



I 2of5 Group 5

I 2of5 (ITF)

.J002\$



Disable

.J004\$



Check Digit (CD)
Calculate & Send

.J003\$



CD not Calculate

.J009\$



Last Digit
Suppressed

.J006\$



Min Length (6)

.J001\$



Enable

.J005\$



CD Calculate,
not send

.J008\$



First Digit
Suppressed

.J014\$



Not Suppressed

.J007\$



Max Length (48)

S 2of5 / Code 32 Group 6

S 2of5 / China Postal
Code (Toshiba Code)

.K002\$



Disable

.K001\$



Enable

.K004\$



Check Digit(CD)
Calculate & Send

.K005\$



CD Calculate,
not send

.K003\$



CD not Calculate

.K006\$



Min Length (11)

.K007\$



Max Length (48)

Code 32
(Italian Pharmacy)

.K011\$



Disable

.K010\$



Enable

.K012\$



Leading Character Send

.K013\$



Leading Character
No Send

.K014\$



Tailing Character Send

.K015\$



Tailing Character
No Send

EAN 128 Group 7

Telepen

.L015\$



Disable

.L014\$



Enable

.L020\$



Standard

.L021\$



Numeric set

Define the EAN 128
Fields Separator

.M007\$



**Define the EAN 128
Fields separator**

Scan a ASCII code in full
ASCII code chart to select a
new fields separator

UCC / EAN 128

.M002\$



Disable

.M001\$



Enable

.M004\$



Code ID Disable

.M003\$



Code ID Enable

Note: If EAN 128 be disabled,
the EAN 128 labels will be
decoded as Code 128

Code 128/ Code 93 / MSI Code Group 8

Code 128

.J011\$



Disable

.J010\$



Enable

.J012\$



Min Length (5)

.J013\$



Max Length (48)

Code 93

.G011\$



Disable

.G010\$



Enable

.G012\$



Min Length (6)

.G013\$



Max Length 48

MSI / Plessey Code

.L002\$



Disable

.L001\$



Enable

.L004\$



Check Digit Send

.L003\$



Check Digit No Send

.L007\$



Check Digit Double
Module 10

.L008\$



Check Digit Module
11 plus 10

.L009\$



**Check Digit Single
Module 10**

.L005\$



Min Length (6)

.L006\$



Max Length (48)

SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.



0



3



7



1



4



8



2



5



9



6

27

Code 11 / Codabar Group 9

Code 11

.I011\$



Disable

.I010\$



Enable

.I042\$



One Check Digit

.I043\$



Two Check Digit

.I013\$



Check Send

.I014\$



No Send

.I015\$



Min Length (6)

.I016\$



Max Length (48)

.I003\$



Start & Stop Send

.I004\$



Start & Stop No Send

.I006\$



**Check Digit
Calculate & Send**

.I007\$



**Check Digit Calculate
but not Send**

.I005\$



**Check Digit
Not Calculate**

.I027\$



CLSI Format On

.I028\$



CLSI Format Off

.I008\$



Min Length (6)

.I009\$



Max Length 48

Codabar

.I002\$



Disable

.I001\$



Enable

UPC / EAN Code Group 10

UPC-A

.H002\$



Disable

.H001\$



Enable

.H003\$



Leading Digit Send

.H004\$



Leading Digit No Send

.H005\$



Check Digit Send

.H006\$



Check Digit No Send

UPC-E

.H008\$



Disable

.H007\$



Enable

.H009\$



Leading Digit Send

.H010\$



Leading Digit No Send

.H011\$



Check Digit Send

.H012\$



Check Digit No Send

.H053\$



Zero Expansion On

.H054\$



Zero Expansion Off

.H066\$



Disable NSC=1

.H065\$



Enable NSC=1

UPC / EAN Code Group 11

EAN-13

.H014\$



Disable

.H013\$



Enable

.H015\$



Leading Digit Send

.H016\$



Leading Digit No Send

.H017\$



Check Digit Send

.H018\$



Check Digit No Send

.H049\$



ISBN Enable

.H050\$



ISBN Disable

EAN-8

.H020\$



Disable

.H019\$



Enable

.H021\$



Leading Digit Send

.H022\$



Leading Digit No Send

.H023\$



Check Digit Send

.H024\$



Check Digit No Send

Supplement Code Group 12

Supplement
Code

.H028\$



Two Supplement
Code Off

.H026\$



Five Supplement
Code Off

.H057\$



Transmitted if Present

.H041\$



Space Separator
Inserted

.H027\$



Two Supplement
Code On

.H025\$



Five Supplement
Code On

.H058\$



Must Present

.H042\$



Space Separator
Not Inserted

MATRIX 2 Of 5 Group 13

. M0 1 0 \$



ENABLE

. M0 1 1 \$



DISABLE

. M0 1 2 \$



DISABLE CDV

. M0 1 3 \$



CDV & SEND CD

. M0 1 4 \$



CDV & NOT SEND CD

. M0 1 5 \$



MIN LENGTH (6)

. M0 1 6 \$



MAX LENGTH (48)

IATA Group 14

. N017\$



ENABLE

. N018\$



DISABLE

. N019\$



DISABLE CDV

. N020\$



CDV & SEND CD

. N021\$



CDV & NOT SEND CDV

. N022\$



MIN LENGTH (6)

. N023\$



MAX LENGTH (48)

UK PLESSY CODE GROUP - 15

.L010\$



ENABLE

.L011\$



DISABLE

.L012\$



CDV & SEND CD

.L013\$



CDV & NOT SEND CD

GS1 Databar Group 16

GS1 DataBar (RSS) - OMNI & STACKED

. N032\$



GS1 DataBar ENABLE

. N034\$



GS1 DataBar CHECK DIGIT SEND

. N036\$



GS1 DataBar PREFIX SEND

. N038\$



GS1 DataBar STACKED ENABLE

. P024\$



GS1 DataBar SET ID

. N033\$



GS1 DataBar DISABLE

. N035\$



GS1 DataBar CHECK DIGIT NOT SEND

. N037\$



GS1 DataBar PREFIX NOT SEND

. N039\$



GS1 DataBar STACKED DISABLE

. N026\$



GS1 DataBar EXPANDED ENABLE

. N028\$



GS1 DataBar EXPANDED STACKED ENABLE

. N030\$



GS1 DataBar EXPANDED MIN LENGTH

. P020\$



GS1 DataBar EXPANDED SET ID

GS1 DataBar (RSS) - EXPANDED

. N027\$



GS1 DataBar EXPANDED DISABLE

. N029\$



GS1 DataBar EXPANDED STACKED DISABLE

. N031\$



GS1 DataBar EXPANDED MAX LENGTH

GS1 DataBar (RSS) - LIMITED

. N010\$



GS1 DataBar LIMITED ENABLE

. N012\$



GS1 DataBar LIMITED CHECK DIGIT SEND

. N024\$



GS1 DataBar LIMITED PREFIX SEND

. P019\$



GS1 DataBar LIMITED SET ID

. N011\$



GS1 DataBar LIMITED DISABLE

. N013\$



GS1 DataBar LIMITED CHECK DIGIT NOT SEND

. N025\$



GS1 DataBar LIMITED PREFIX NOT SEND

Full ASCII Chart

(Characters in parentheses represent Code 39 bar code printing)



NUL(%U)



DLE(\$P)



ETB(\$W)



SOH(\$A)



BS(\$H)



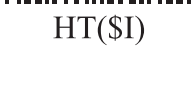
DC1(\$Q)



CAN(\$X)



STX(\$B)



HT(\$I)



DC2(\$R)



EM(\$Y)



ETX(\$C)



LF(\$J)



DC3(%S)



SUB(%Z)



EOT(\$D)



VT(\$K)



DC4(\$T)



ESC(%A)



ENQ(\$E)



FF(\$L)



NAK(\$U)



FS(%B)



ACK(\$F)



CR(\$M)



SYN(\$V)



GS(%C)



BEL(\$G)



SO(\$N)



SI(\$O)



RS(%D)



US(%E)



SP



!(/A)



”(/B)



#(/C)



\$



%



&(/F)



’(/G)



((/H)



) (/I)



*/(J)



+



,(/L)



-



.



/



0



1



2



3



4



5



6



7



8



9



: (/Z)



; (%F)



< (%G)



= (%H)



> (%I)



? (%J)



@ (%V)



A



B



C



D



E



F



G



H



I



\(%W)



a(+A)



b(+B)



c(+C)



d(+D)



e(+E)



f(+F)



g(+G)



h(+H)



i(+I)



j(+J)



k(+K)



l(+L)



m(+M)



n(+N)



o(+O)



p(+P)



q(+Q)



r(+R)



s(+S)



t(+T)



u(+U)



v(+V)



w(+W)



x(+X)



y(+Y)



z(+Z)



{ (%P)



| (%Q)



} (%R)



~ (%S)



DEL(%T)

Appendix B

Examples of Connection to Android and iOS Smartphones

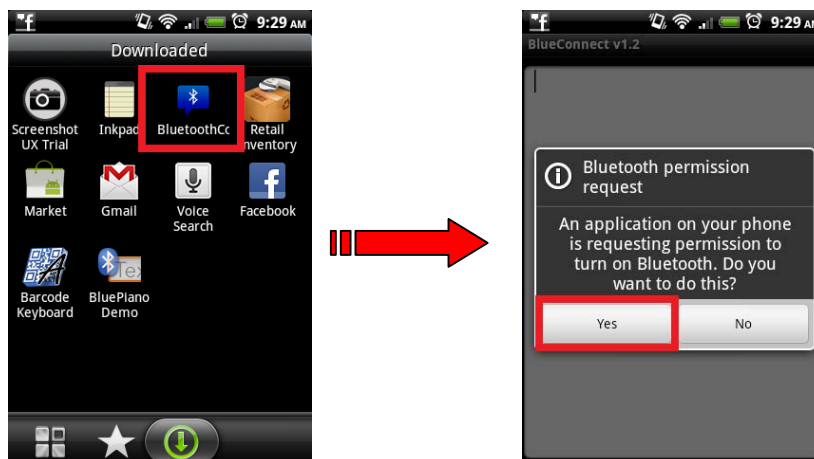
BluetoothConnect needs to be installed only when you have NO wireless input application on your Android device. *Android 2.x devices can work with MS910 in the SPP mode ONLY. The SPP mode or/and the HID mode are not definitely compatible with each version of Android OS, and thus depends on the Android-based hardware specifications defined by the Android device manufacturers.*

Smartphone Connection (Android)

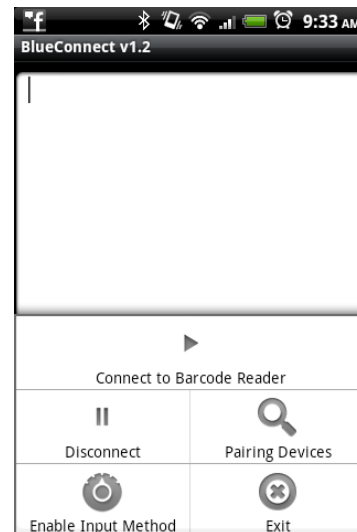
1. Before connection between the scanner and your mobile device, pair with the scanner via [SPP]; see the topic: *Connecting via Serial Port Profile (SPP) Mode*.
2. Install [BluetoothConnect.apk](#) (available on CD) onto your mobile device and enter the program.

Note: Before installation, enable 'Unknown Sources' in Android Authority.

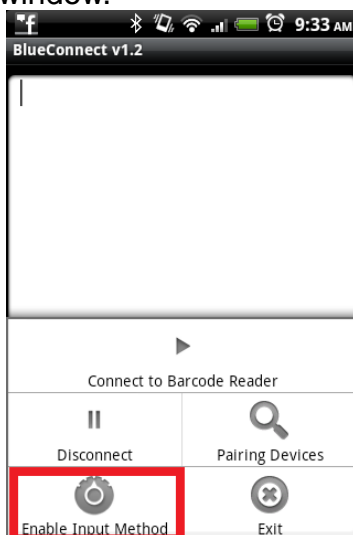
3. Once you enter the BluetoothConnect, the application may ask you to enable Bluetooth connection, and then click [Yes].



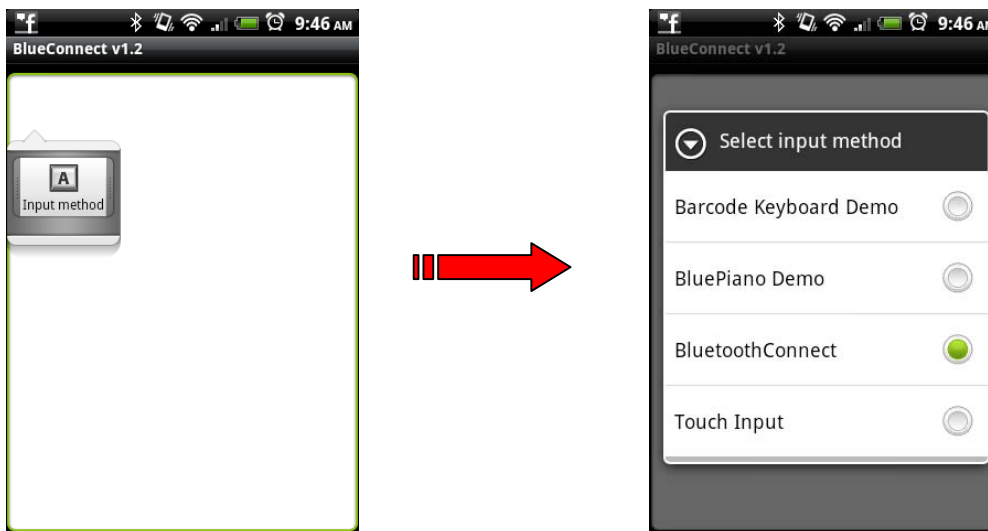
- Click the Menu button to enable the settings menu.



- Click [Enable Input Method] and enable [BluetoothConnect] in the Language & Keyboard setting window.



6. Press and hold the “Input method” icon on the panel to enable Input method menu and select BluetoothConnect.



7. Now enable your wireless scanner by pressing the button for 2 seconds until a long beep.
8. Scan [BT mode - SPP] configuration barcode. It can be found on the quick start guide or quick connection card.

GETTING CONNECTED

There are two modes of wireless communication:

. E042\$

BT mode - SPP

1. Press the trigger for 1 second to activate the scanner.
2. Scan [DISCONNECT]
3. Scan [BT mode - SPP]; the scanner will emit 10 beeps.
4. Select “Wireless Scanner” from discovered device list. The default pincode is “1234”.
5. Open serial communication software with com port (see Device Manager) properly set up.
6. The scanner will beep twice to verify the connection.

. E043\$

BT mode - HID

1. Press the trigger for 1 second to activate the scanner.
2. Scan [DISCONNECT]
3. Scan [BT mode - HID]; the scanner will emit 11 beeps.
4. Select “Wireless Scanner” from discovered device list.
5. The Bluetooth application may prompt you to scan a pincode (see PINCODE SETUP section) it generated.
6. The scanner will beep twice to verify the connection.

. E031\$

Disconnect

PINCODE SETUP

STEP 1

Pincode Start

. E032\$

STEP 2

Scan numeric barcodes (see **NUMERIC BARCODES** section on the next pages) based on the pincode generated by the Bluetooth application.

STEP 3

Enter

\$TX

STEP 4

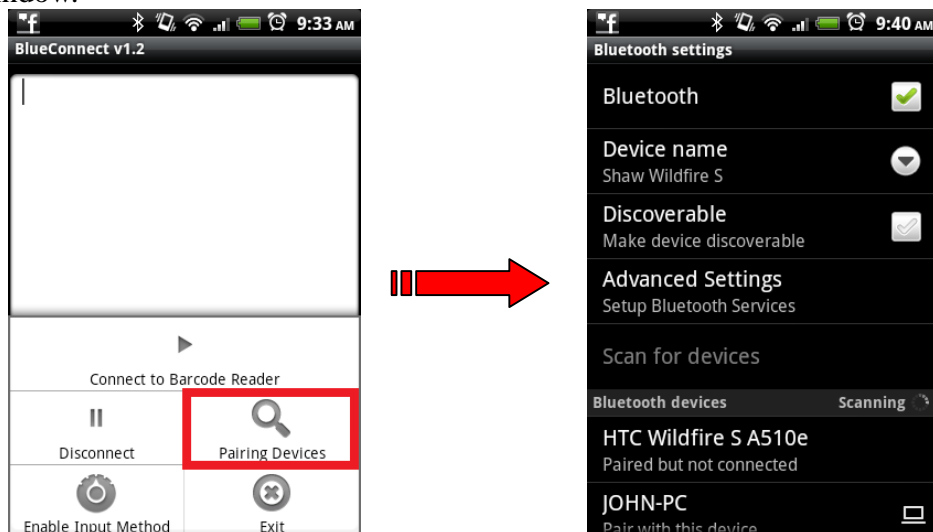
Pincode Stop

. E033\$

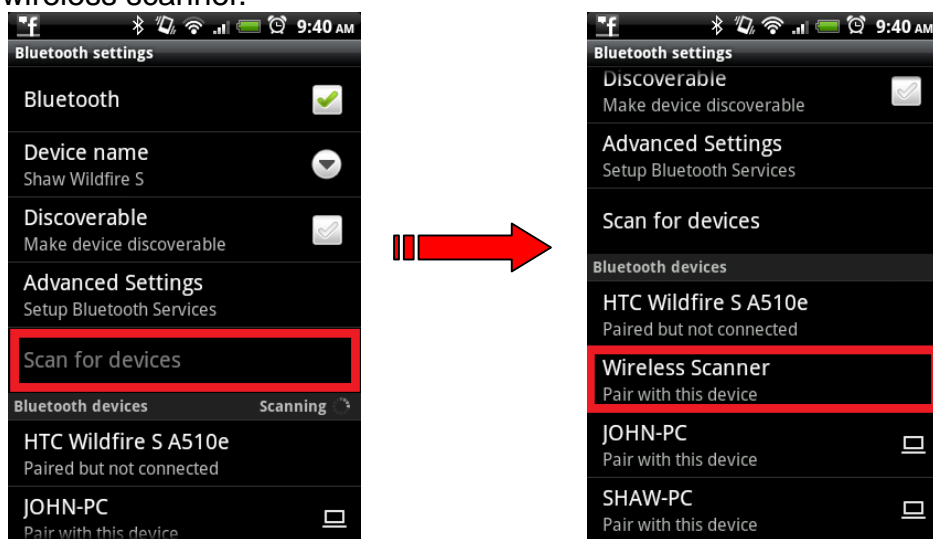
- 7 -

- 8 -

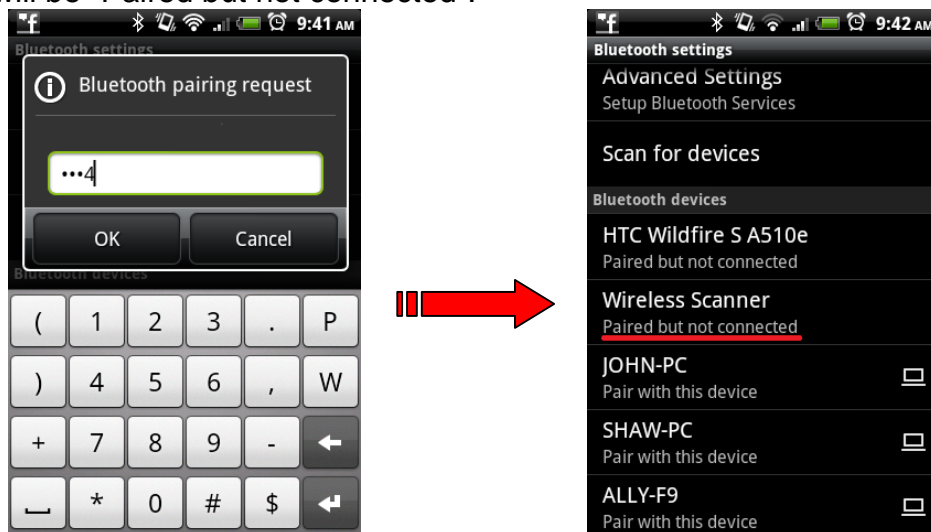
9. Click [Pairing Devices] on the setting menu and the device will prompt you to enter the Bluetooth settings window.



10. Click [Scan for devices] on the Bluetooth settings window. Click [Wireless Scanner] to pair with your wireless scanner.



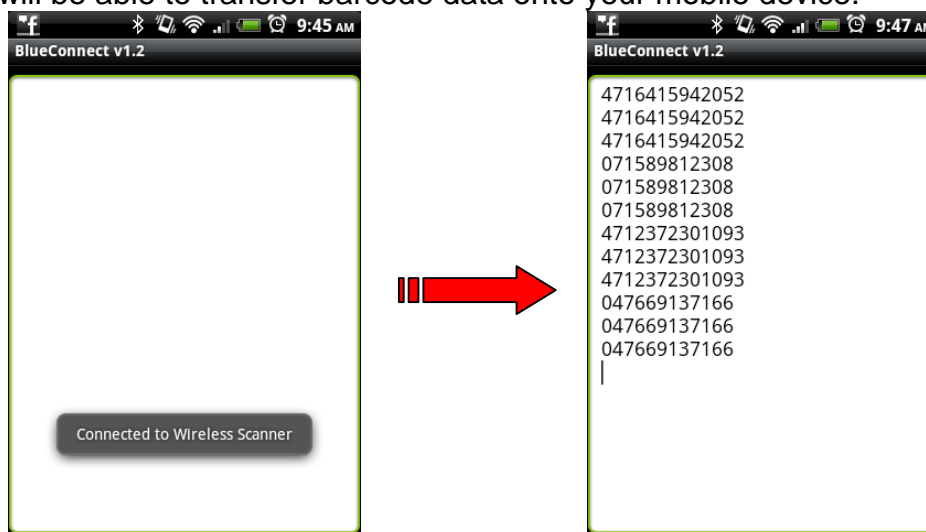
11. The default pairing code is 1234. After successful pairing, the description under Wireless Scanner will be "Paired but not connected".



12. Get back to BluetoothConnect, enable setting menu and click [Connect to Barcode Reader]. The scanner will beep twice to verify the successful connection.



13. Now you will be able to transfer barcode data onto your mobile device.



Smartphone/ Tablet PC Connection (iOS)

1. Press the scanner until a long beep sound to activate the scanner.
2. Scan [BT mode - HID] configuration barcode. It can be found on the quick start guide or quick connection card.

GETTING CONNECTED

There are two modes of wireless communication:

. E042\$

BT mode - SPP

1. Press the trigger for 1 second to activate the scanner.
2. Scan [DISCONNECT]
3. Scan [BT mode - SPP]; the scanner will emit 10 beeps.
4. Select "Wireless Scanner" from discovered device list. The default pincode is "1234".
5. Open serial communication software with com port (see Device Manager) properly set up.
6. The scanner will beep twice to verify the connection.

. E043\$

BT mode - HID

2. Scan [DISCONNECT]
3. Scan [BT mode - HID]; the scanner will emit 11 beeps.
4. Select "Wireless Scanner" from discovered device list.
5. The Bluetooth application may prompt you to scan a pincode (see PINCODE SETUP section) it generated.
6. The scanner will beep twice to verify the connection.

. E031\$

Disconnect

PINCODE SETUP

STEP 1

Pincode Start

. E032\$

STEP 2

Scan numeric barcodes (see NUMERIC BARCODES section on the back page) based on the pincode generated by the Bluetooth application.

STEP 3

Enter

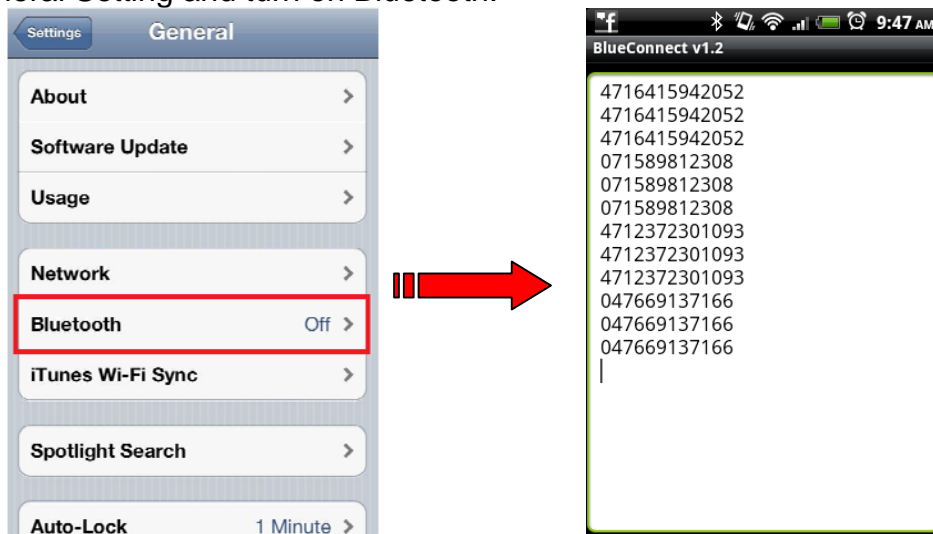
\$TX

STEP 4

Pincode Stop

. E033\$

3. Go to General Setting and turn on Bluetooth.



4. On the discovered device list, click [Wireless Scanner] to pair with your wireless scanner. The Bluetooth application will prompt you to enter a random pincode.



- Please enter the pincode according to the procedures in the Pincode Setup section on the quick start guide or quick connection card.

PINCODE SETUP

STEP 1

Pincode Start

ED32\$

STEP 2

Scan numeric barcodes (see **NUMERIC BARCODES** section on the back page) based on the pincode generated by the Bluetooth application.

STEP 3

Enter

\$TX

STEP 4

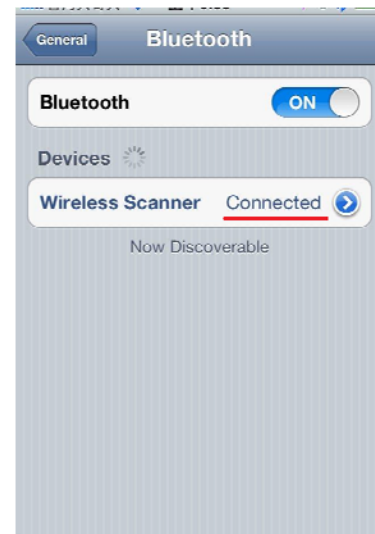
Pincode Stop

ED32\$

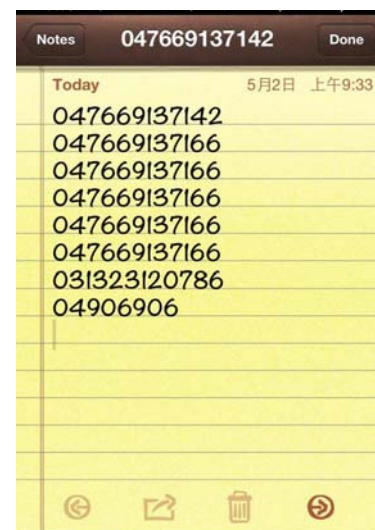
NUMERIC BARCODES

	1	6	
	2	7	
	3	8	
	4	9	
	5	0	

6. The scanner will beep twice to verify the successful connection. And on the discovered device list, it will show the scanner is "connected".



7. Now you can input any scanned barcode data onto your Note or other applications.



Appendix C

Worldwide Support

Unitech's professional support team is available to quickly answer questions or technical-related issues. Should an equipment problem occur, please contact the nearest Unitech regional service representative. For complete contact information please visit the Web sites listed below:

Region	Web Site
Global Operation Center	http://www.ute.com
Unitech Taiwan	http://tw.ute.com
Unitech Asia Pacific & Middle East	http://apac.ute.com ; http://india.ute.com
Greater China Division	http://cn.ute.com
Unitech Japan	http://jp.ute.com
Unitech America	http://us.ute.com ; http://can.ute.com
Unitech Latin America	http://latin.ute.com
Unitech Europe	http://eu.ute.com